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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,542	12/19/2005	Toyokazu Mori	050793	9383
23850 77590 67719/2010 KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W.			EXAMINER	
			GRANT, ALVIN J	
4th Floor WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER	
1710111101011110000			3723	
			MAIL DATE	DELIVERY MODE
			07/19/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/561.542 MORI ET AL. Office Action Summary Examiner Art Unit ALVIN J. GRANT -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 May 2010. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.7 and 8 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1, 7 and 8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/SB/08)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Wiedemann et al. 5.448.792.

Wiedemann et al. discloses an electric toothbrush in which brushing is enabled by backand-forth linear movement of a tufted portion in a longitudinal direction of a replaceable
brush, wherein the distance (mm) of movement of the tufted portion is set in the range
of 0.5 - 3mm, the frequency (times) of back-and-forth motion of the tufted portion per
minute is set in the range of 2000 - 11,000, and the product of the distance (mm) of
movement of the tufted portion and the frequency (times) of back-and-forth motion per
minute is set in the range of 5000 - 7000 (2:9-16; 2:42-50; and 3:37-42); and wherein
an inherently DC electric motor is used as means for moving the tufted portion.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the Application/Control Number: 10/561,542

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wiedemann et al. in view of Blaustein et al. US 2003/0084525.

Wiedemann et al. is described above. Wiedemann et al. does not specifically disclose filaments in which the tip portions of at least 30% or more of all tufted filaments are split into a plurality of portions. Blaustein et al. discloses a toothbrush in which the filaments in which the tip portions of at least 30% or more of all tufted filaments are split into a plurality of portions so as to enhance the effectiveness of the toothbrush. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have made Wiedemann et al.'s toothbrush to have the filaments in which the tip portions of at least 30% or more of all tufted filaments are split into a plurality of portions as taught by Blaustein et al. so as to enhance the effectiveness of the toothbrush.

Response to Arguments

- Applicant's arguments filed 6/25/10 have been fully considered but they are not persuasive.
- 5. Applicant's arguments that US Patent No. 5,448,792 (to Wiedemann et al.) does not satisfy the requirements of claim 1, as amended, is not convincing. When the amplitude is between 0.1 mm and 5 mm and a frequency (identified as 8) which could be higher than 30Hz (e.g., abstract) the requirements of claim 1 is satisfied as follows: When Applicant's formula y=ax+b where a=-3000, 10,000 ≤ b ≤12,500, x>0, the range of 0.1 5 mm satisfies the requirement of 0.5 3 mm; and more specifically when the

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amplitude is 3mm, b=11,024 and the frequency is 33.34 Hz. (2024 cycles/min.) which satisfies the 2000-5000, and the frequency times the amplitude 6072 which satisfies the range 5000-7000.

 Applicant's arguments regarding US PG Publication No. 2003/0084525 (to Blaustein et al.) assumes that the Wiedemann et al.'s reference does not satisfy the requirements of claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALVIN J. GRANT whose telephone number is (571)272-4484. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J. Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alvin J Grant/ Examiner, Art Unit 3723